1877MNRAS..38...72P

Phenomena of Jupiter's Satellites, 1875–77.

By the Rev. S. J. Perry.

Owing to the loss of two assistants, one of whom was carried off by a rapid decline, it has been necessary during the last two years to confine our attention at this Observatory almost exclusively to the routine work which would suffer most by interruption. This, along with the exceptionally bad skies of the two last summers, will account for the fewness of the observations I am at present able to forward, but I send them in hopes that they may help to fill up some lacunæ in more ample records:—

Date.	Satellite.	Phenomenon.	G. M. T.			Obs.	Remarks.
			h	m	s		
1875. Feb. 4	II	Tr. I. first contact	17	52	1·8	W.C.	Very unsteady, thin clouds.
		„ bisection	17	55	7·7	„	„ „
		„ last contact	17	58	5·9	„	„ „
Apr. 12	I	Tr. I. first contact	11	57	30·2	„	
		„ bisection	12	0	51·2	„	
		„ last contact	12	3	24·7	„	
„ 13	I	Ec. D.	9	18	32·7	„	Very close to disk; good.
	I	Occ. R. bisection	11	31	1·0	„	
		„ last contact	11	34	34·5	„	
1876. Mar. 16	II	Occ. R. bisection	17	46	1·7	„	Poor, clouds passing.
		„ last contact	17	50	46·9	„	
Apr. 7	I	Sh. I. bisection	13	2	56·4	„	Very faint.
	I	Tr. I. first contact	13	42	7·4	„	
		„ bisection	13	45	23·3	„	
		„ last contact	13	48	0·4	„	
	I	Sh. E. bisection	15	6	22·9	„	
„ 26	III	Ec. D.	11	46	21·8	„	Light fading 10^m earlier; good.
	III	Ec. R.	13	21	14·4	„	Cloudy, fair.
May 3	III	Ec. D.	15	38	2·8	„	
June 1	I	Sh. I. first contact	9	45	19·4	S.P.	
	I	Tr. E. bisection	11	26	37·7	W.C.	
		„ last contact	11	30	36·4	„	
„ 25	I	Ec. R. first seen	9	20	56·3	S.P.	
		„ full light	9	22	2·0	„	
July 2	I	Ec. R.	11	15	34·5	W.C.	
„ 17	I	Tr. I. first contact	8	53	59·8	S.P.	Strong daylight.
		„ bisection	8	55	56·5	„	Definition good.
		„ last contact	8	58	50·0	„	

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Date. 1877.	Satellite.	Phenomenon.	G. M. T. h m s	Obs.	Remarks.
June 15	II	Ec. D.	10 32 3·6	W.C.	
	II	Occ. R. first contact	1 29 10·2	„	
		„ bisection	1 30 58·7	„	
		„ last contact	1 33 57·0	„	

Stonyhurst Observatory.

Observation of a Meteor. By J. L. McCance, Esq.

(*Communicated by Mr. Ranyard.*)

In the February number of the *Monthly Notices*, there is, under the heading "Progress of Meteoric Astronomy during 1876," a list of remarkable meteors observed during that year. Seeing that such a record is kept, I suppose that a short account of a fine meteor seen here lately may possibly have some interest. It appeared on Friday the 17th August, about 8.13 P.M., and its apparent path seems to have been one of about 15 degrees in length, beginning near *β Piscium*, at about R.A. 22^h 55^m; Decl. 2° N., and disappearing at about R.A. 23^h 50^m; Decl. 6° N., near *ω* in that constellation. It was a large round ball of bluish-green colour, and was as bright as the moon at First Quarter. The duration of its visibility was 2 to 3 seconds. In the *Standard* of the next Monday (the 20th) the (I presume) same meteor is mentioned as seen in the neighbourhood of Mornington Crescent, N.W.

Rathfern, Rayner's Road, Putney Hill, S.W.
1877, *August* 27.

On Jupiter's Third Satellite. By J. Tebbutt, Esq.

As my Notes on the physical peculiarities of *Jupiter's* third satellite, published in the *Notices* for December 1873, called forth interesting papers in the *Astronomische Nachrichten* from Professor Alexander and Dr. Klein, it may perhaps be well to record the following subsequent observations made by me of the same satellite.

The satellite was watched on March 4, 1874, but the beginning of the dark phase could not be determined, as the transit began before the planet rose above the horizon. The satellite reached its nearest approximation to the centre of the disk of its primary about 9^h 3^m, being then only a faint dusky spot and not near so conspicuous as in the transits of April and May of the previous year. It was still extremely faint and near the edge of the disk at 9^h 55^m. The Moon was only 2° or 3° from the planet. It must be observed that the chord traversed by the satellite was much shorter than in 1873.

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